2008 Annual Report
Vital Statistics

Letter of Transmittal

Regina, Saskatchewan
April 20, 2009

To His Honour
The Honourable Dr. Gordon L. Barnhart
Lieutenant Governor of the Province of Saskatchewan

May it Please Your Honour:

We respectfully submit the Annual Report of Vital Statistics for the calendar year 2008, in accordance with *The Vital Statistics Act, 1995*.

Ken Cheveldayoff
Minister of Crown Corporations

Don Morgan, Q.C.
Minister of Justice and Attorney General

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This annual report is also available in electronic format from the Information Services Corporation's web site at **www.isc.ca**

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Terms and Definitions

A summary of symbols, definitions, and the method of computing rates used in this report are given below.

Definitions

Population	This report contains post-censal estimates for 2002-2005, 2007 and 2008; and, final census figures for 2001and 2006.
Live Births	Infants born alive, i.e. excluding stillbirths.
Stillbirths	Fetal deaths occurring after at least 20 weeks pregnancy or after attaining a weight of at least 500 grams.
Deaths	Excludes stillbirths.
Infant Deaths	Deaths under 1 year of age.
Neonatal Deaths	Deaths under 28 days (4 weeks) of age.
Perinatal Deaths	Fetal deaths of 500 grams or more plus infant deaths under 7 days (1 week) of age.
Natural Increase	Excess of births over deaths.

Rates (unless otherwise indicated, computed as follows)

Live Births	: per 1,000 population
Stillbirths	: per 1,000 live births
Marriages	: per 1,000 population
Natural Increase	: per 1,000 population

Introduction

The Vital Statistics Annual Report represents a concise record of those vital events which occurred in Saskatchewan during the calendar year. The Report has been prepared in accordance with the requirements of subsections 50(1) and 50(2) of *The Vital Statistics Act, 1995*.

The Vital Statistics Annual Report 2008 records vital events by place of occurrence for 2008 (vital events which occurred in Saskatchewan in 2008). It includes, for example, births to Saskatchewan residents who were in the province at the time of giving birth, as well as residents of other provinces (or countries) who were in Saskatchewan at the time of giving birth.

The data in this report are based on original registration forms and do not include amendments.

In October of 2008, responsibility for the administration of vital statistics was transferred from Saskatchewan's Ministry of Health to the Information Services Corporation of Saskatchewan.

Table 1. Summary of Vital Statistics 2004 – 2008 (Saskatchewan)

Item	2004	2005	2006	2007	2008
Population (000's)	997	994	992	1000	1016
Live Births	11,983	12,104	12,425	13,347	13,968
Crude Rate**	12.0	12.2	12.5	13.4	14.0
Deaths	8,844	8,845	9,100	9,101	9,310
Crude Rate**	8.9	8.8	9.2	9.1	9.3
Natural Increase	3,139	3,259	3,327	3,536	4,658
Crude Rate**	3.1	3.3	3.3	3.5	4.6
Infant Deaths	74	95	80	79	86
Crude Rate**	6.2	7.8	6.4	5.9	6.2
Neonatal Deaths	40	61	49	49	55
Crude Rate**	3.3	5.0	3.9	3.6	3.9
Perinatal Deaths@					
500 grams or more or 20+ weeks Gestation	124	130	124	154	126
Crude Rate***	10.3	10.7	9.9	11.4	9.0
500 grams or more or 28+ weeks Gestation	82	97	82	104	90
Crude Rate***	6.8	8.0	6.6	7.7	6.4
Stillbirths@					
500 grams or more or 20+ weeks Gestation	90	75	77	114	81
Crude Rate**	7.4	6.2	6.2	8.5	5.8
500 grams or more or 28+ weeks Gestation	50	42	38	64	45
Crude Rate**	4.2	3.5	3.1	4.8	3.2
Marriages	5,034	5,121	5,157	5,235	5,337
Crude Rate**	5.1	5.1	5.2	5.2	5.3
Divorces and Annulments	1,887	1,925	1,953	1,832	1,848

** Crude Rate per 1,000 live births
++ Crude Rate per 1,000 population
+++ Crude Rate per 1,000 total births (live births and stillbirths)
@ See Terms and Definitions, page 3

A. Population

1. The Historical Trend

The estimated population of 1,015,985 for 2008 is an increase of 1.6 per cent from the 2007 estimated population of 1,000,000.

Table 2. The Historical Trend in Saskatchewan Population

Year	Population (000's)
1971	926
1981	968
1991	991
2001	1,000
2002	997*
2003	996*
2004	997*
2005	994*
2006	992
2007	1,000*
2008	1,016*

* Statistics Canada post-censal estimate. All other figures are final census.

2. The Distribution of the Total Population by Age

The proportion of older people (65 years of age and over) continued to increase in Canada as a whole but remained constant in Saskatchewan. In Saskatchewan the proportion of persons 65 years of age and over is greater than in Canada as a whole (14.9 per cent and 13.7 per cent respectively).

Table 3. Distribution of Total Population by Age, 2008 (000's)

	Canada		Saskatchewan	
Age Group	Number	%	Number	%
Total	33,311.4	100.0	1016.0	100.0
0-14	5,597.7	16.8	193.0	19.0
15-64	23,150.6	69.5	671.4	66.1
65+	4,563.1	13.7	151.6	14.9

Table 4. Percentage Distribution by Sex for Selected Years (Saskatchewan)

Year	Male	Female	Males per 100 Females
1971	50.8	49.2	103
1981	50.2	49.8	101
1991	49.6	50.4	98
2001	49.6	50.4	98
2002*	49.6	50.4	98
2003*	49.7	50.3	99
2004*	49.7	50.3	99
2005*	49.7	50.3	99
2006	49.7	50.3	99
2007*	49.6	50.4	98
2008*	49.5	50.5	98

* Statistics Canada post-censal estimate.
All other figures are final census.

B. Births

1. Live Births

During the year 2008, a total of 13,968 live births occurred in the province of Saskatchewan. This total includes births to Saskatchewan mothers residing in the province at the time of giving birth and those births occurring to mothers who normally reside outside the province but who were in Saskatchewan at the time of giving birth.

The total of 13,968 live births represents a crude birth rate of 14.0 live births per 1,000 population, which is higher than last year's birth rate of 13.4.

The mid-year birth rates for Saskatchewan, for Canada, and for the provinces and territories are shown below for comparison.

Table 5. Live Birth Rates per 1,000 Population (Canada and Provinces)

Province	2006-2007	2007-2008
Canada	10.9	11.1
Newfoundland & Labrador	8.8	8.7
Prince Edward Island	10.2	10.3
Nova Scotia	9.0	8.9
New Brunswick	9.4	9.3
Quebec	10.8	11.2
Ontario	10.7	10.6
Manitoba	12.3	12.4
Saskatchewan	12.4	12.7
Alberta	13.3	13.6
British Columbia	9.9	10.2
Yukon	11.1	10.9
Northwest Territories	15.8	16.0
Nunavut	24.4	25.2

* Estimate from demography division July 1 – June 30.

2. Stillbirths

During the year 2008, a total of 81 stillbirths occurred in the province. The definition of stillbirth is given on page 3. The 81 stillbirths occurred after 20 or more weeks gestation (or attaining a weight of 500 grams or more); forty-five (45) of the stillbirths occurred after 28 or more weeks gestation (or attaining a weight of 500 grams or more). These two totals represent crude rates of 5.8 and 3.6 stillbirths per 1,000 live births respectively.

C. Deaths

During the year 2008, a total of 9,310 deaths occurred in the province. This represents a crude death rate of 9.3 deaths per 1,000 population.

The mid-year death rates for Saskatchewan, for Canada, and for the provinces are shown in the table below for comparison.

Table 6. Crude Death Rates per 1,000 Population (Canada and Provinces)

Province	2006-2007	2007-2008
Canada	7.1	7.2
Newfoundland & Labrador	8.9	9.2
Prince Edward Island	8.6	8.7
Nova Scotia	8.7	8.9
New Brunswick	8.1	8.3
Quebec	7.4	7.3
Ontario	6.7	6.9
Manitoba	8.3	8.4
Saskatchewan	9.2	9.2
Alberta	5.8	5.8
British Columbia	7.2	7.4
Yukon	5.6	5.8
Northwest Territories	4.2	4.4
Nunavut	4.3	4.4

* Estimate from demography division July 1 – June 30.

Table 7. Age Specific Death Rates per 1,000 Population 1999 – 2008 (Saskatchewan)

Year	All Ages	Age Group Under 5	5-14	15-24	25-44	45-64	65+
1999	8.8	1.5	0.2	0.6	1.1	5.2	49.2
2000	8.8	1.5	0.2	0.8	1.2	4.9	49.0
2001	8.6	1.3	0.1	0.7	1.1	4.9	48.4
2002	8.7	1.3	0.3	0.7	1.2	5.0	48.8
2003	8.9	1.5	0.2	0.8	1.2	4.9	48.4
2004	8.9	1.5	0.2	0.8	1.3	5.0	48.0
2005	8.8	2.0	0.1	0.9	1.2	3.9	48.2
2006	9.2	1.6	0.1	0.9	1.3	4.9	49.7
2007	9.2	1.6	0.2	0.8	1.1	4.9	49.3
2008	9.2	1.8	0.2	0.8	1.4	5.1	48.4

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2008

	Deaths	%	Rate*
All Causes of Death	9310	100.0	916.4
1 Salmonella infections	1	0.0	0.1
2 Shigellosis and amebiasis	0	0.0	0.0
3 Certain other intestinal infections	8	0.1	0.8
4 Respiratory tuberculosis	5	0.1	0.5
5 Other tuberculosis	0	0.0	0.0
6 Whooping cough	1	0.0	0.1
7 Scarlet fever and erysipelas	0	0.0	0.0
8 Meningococcal infection	1	0.0	0.1
9 Septicemia	94	1.0	9.2
10 Syphilis	0	0.0	0.0
11 Acute poliomyelitis	0	0.0	0.0
12 Arthropod-borne viral encephalitis	0	0.0	0.0
13 Measles	0	0.0	0.0
14 Viral hepatitis	14	0.2	1.3

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2008

		Deaths	%	Rate*
15	Human immunodeficiency virus (HIV) disease	16	0.2	1.6
16	Malaria	0	0.0	0.0
17	Other and unspecified infectious and parasitic diseases and their sequelae	16	0.2	1.5
18	Malignant neoplasms of lip, oral cavity and pharynx	23	0.3	2.3
19	Malignant neoplasm of esophagus	57	0.6	5.6
20	Malignant neoplasm of stomach	53	0.6	5.3
21	Malignant neoplasms of colon, rectum and anus	219	2.4	21.8
22	Malignant neoplasms of liver and intrahepatic bile ducts	61	0.7	6.0
23	Malignant neoplasm of pancreas	129	1.4	12.7
24	Malignant neoplasm of larynx	9	0.1	0.9
25	Malignant neoplasms of trachea, bronchus and lung	530	5.7	52.2
26	Malignant melanoma of skin	25	0.3	2.5
27	Malignant neoplasm of breast	173	1.9	17.0
28	Malignant neoplasm of cervix uteri	16	0.2	1.5
29	Malignant neoplasms of corpus uteri and uterus, part unspecified	21	0.2	2.1
30	Malignant neoplasm of ovary	49	0.5	4.8
31	Malignant neoplasm of prostate	197	2.1	19.4
32	Malignant neoplasms of kidney and renal pelvis	61	0.6	6.0
33	Malignant neoplasm of bladder	65	0.7	6.4
34	Malignant neoplasms of meninges, brain and other parts of central nervous system	49	0.5	4.8
35	Hodgkin's disease	6	0.1	0.6
36	Non-Hodgkin's lymphoma	81	0.9	8.0
37	Leukemia	83	0.9	8.2
38	Multiple myeloma and immunoproliferative neoplasms	34	0.3	3.3
39	Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	0	0.0	0.0
40	All other and unspecified malignant neoplasms	319	3.4	31.4
41	In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior	66	0.7	6.5
42	Anemias	25	0.2	2.5

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2008

		Deaths	%	Rate*
43	Diabetes mellitus	295	3.2	29.0
44	Malnutrition	5	0.1	0.5
45	Other nutritional deficiencies	1	0.0	0.1
46	Meningitis	2	0.0	0.2
47	Parkinson's disease	62	0.7	6.1
48	Alzheimer's disease	244	2.6	24.0
49	Acute rheumatic fever and chronic rheumatic heart diseases	9	0.1	0.9
50	Hypertensive heart disease	51	0.5	5.0
51	Hypertensive heart and renal disease	8	0.1	0.8
52	Acute myocardial infarction	463	5.0	45.6
53	Other acute ischemic heart diseases	18	0.2	1.8
54	Atherosclerotic cardiovascular disease, so described	226	2.4	22.2
55	All other forms of chronic ischemic heart disease	687	7.4	67.6
56	Acute and subacute endocarditis	3	0.0	0.3
57	Diseases of pericardium and acute myocarditis	3	0.0	0.3
58	Heart failure	328	3.5	32.3
59	All other forms of heart disease	329	3.5	32.3
60	Essential (primary) hypertension and hypertensive renal disease	108	1.2	10.6
61	Cerebrovascular diseases	557	6.0	54.8
62	Atherosclerosis	22	0.2	2.2
63	Aortic aneurysm and dissection	61	0.7	6.0
64	Other diseases of arteries, arterioles and capillaries	34	0.3	3.3
65	Other disorders of circulatory system	13	0.1	1.2
66	Influenza	9	0.1	0.9
67	Pneumonia	242	2.6	23.8
68	Acute bronchitis and bronchiolitis	0	0.0	0.0
69	Unspecified acute lower respiratory infection	5	0.1	0.5
70	Bronchitis, chronic and unspecified	0	0.0	0.0
71	Emphysema	36	0.4	3.5
72	Asthma	0	0.0	0.0
73	Other chronic lower respiratory diseases	389	4.2	38.3
74	Pneumoconioses and chemical effects	5	0.1	0.5
75	Pneumonitis due to solids and liquids	38	0.4	3.7
76	Other diseases of respiratory system	116	1.2	11.4

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2008

		Deaths	%	Rate*
77	Peptic ulcer	24	0.2	2.4
78	Diseases of appendix	0	0.0	0.0
79	Hernia	11	0.1	1.1
80	Alcoholic liver disease	55	0.6	5.4
81	Other chronic liver disease and cirrhosis	50	0.5	4.9
82	Cholelithiasis and other disorders of gallbladder	15	0.2	1.5
83	Acute and rapidly progressive nephritic and nephrotic syndrome	0	0.0	0.0
84	Chronic glomerulonephritis, nephritis & nephritis not specified as acute or chronic and renal sclerosis unspecified	5	0.1	0.5
85	Renal failure	184	2.0	18.1
86	Other disorders of kidney	0	0.0	0.0
87	Infections of kidney	3	0.0	0.3
88	Hyperplasia of prostate	4	0.0	0.4
89	Inflammatory diseases of female pelvic organs	1	0.0	0.1
90	Pregnancy with abortive outcome	1	0.0	0.1
91	Other complications of pregnancy, childbirth and the puerperium	1	0.0	0.1
92	Certain conditions originating in the perinatal period	37	0.4	3.6
93	Congenital malformations, deformations and chromosomal abnormalities	30	0.3	3.0
94	Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified	110	1.1	10.8
95	All other diseases (Residual)	1079	11.6	106.2
96	Motor vehicle accidents	156	1.7	15.4
97	Other land transport accidents	2	0.0	0.2
98	Water, air and space, and other and unspecified transport accidents	8	0.1	0.8
99	Falls	146	1.6	14.4
100	Accidental discharge of firearms	4	0.0	0.4
101	Accidental drowning and submersion	8	0.1	0.8
102	Accidental exposure to smoke, fire and flames	10	0.1	1.0
103	Accidental poisoning and exposure to noxious substances	54	0.6	5.3

Table 8. Number of Deaths by Cause Occurring in Saskatchewan in 2008

		Deaths	%	Rate*
104	Other and unspecified nontransport accidents and their sequelae	92	1.0	9.1
105	Intentional self-harm (suicide) by discharge of firearms	16	0.2	1.6
106	Intentional self-harm (suicide) by other and unspecified means and their sequelae	105	1.1	10.3
107	Assault (homicide) by discharge of firearms	3	0.0	0.3
108	Assault (homicide) by other and unspecified means and their sequelae	15	0.2	1.5
109	Legal intervention	0	0.0	0.0
110	Discharge of firearms, undetermined intent	1	0.0	0.1
111	Other and unspecified events of undetermined intent and their sequelae	13	0.1	1.2
112	Operations of war and their sequelae	0	0.0	0
113	Complications of medical and surgical care	5	0.1	0.5
900	Not yet classified at time of printing	186	2.0	18.3

*Crude Rate per 100,000 population (Statistics Canada Population Base)

Accidents and Violence

During the year 2008, a total of 480 deaths due to accidents occurred in the province of Saskatchewan. This represents a crude rate of 47.2 deaths by accidents per 100,000 population in 2008. This is higher than the 373 deaths (37.4 crude rate per 100,000 population) recorded in 2007. The increase is largely the result of an increase in the number of deaths due to falls which rose from 94 in 2007, to 146 in 2008.

Accidents and Violence

The number of suicides that occurred in Saskatchewan during 2008 was 121. This represents a crude rate of 12.0 suicides per 100,000 population. This is slightly lower than the 126 suicides (12.6 crude rate per 100,000 population) recorded in 2007.

There were 18 homicides in Saskatchewan in 2008. This is lower than the 22 homicides reported in 2007.

D. Natural Increase in Population

In 2008, the natural increase was 4,658 and the estimated actual increase was 16,288 giving rates per 1,000 population of 4.6 and 16.0 respectively.

Table 9. Natural Increase and Actual Increase 2004 – 2008 (Saskatchewan)

				Natural Increase		Est. Actual Increase	
Year	Population	Live Births	Deaths	Number	Rate per 1,000 Pop.	Number	Rate per 1,000 Pop.
2004*	997,447	11,983	8,844	3,139	3.1	2,715	2.7
2005*	993,579	12,104	8,845	3,259	3.3	-3,868	-3.9
2006	992,122	12,425	9,100	3,325	3.4	-1,457	-1.5
2007*	999,697	13,437	9,901	3,536	3.5	7,575	7.6
2008*	1,015,985	13,968	9,310	4,658	4.6	16,288	16.0

* Statistics Canada post-censal estimate. All other figures are final census.

E. Marriages

During the year 2008, a total of 5,337 marriages were solemnized in Saskatchewan. This total represents a crude rate of 5.3 marriages per 1,000 population. Marriage rates for Canada, the provinces, and Saskatchewan for 2007 are given in Table 10.

Of the 5,337 marriages registered in Saskatchewan in 2008, 35 of those marriages were between same sex partners.

Table 10. Marriages Rate per 1,000 Population, 2007 (Canada and the Provinces)

Province	Rate*
Canada	4.6
Newfoundland & Labrador	5.3
Prince Edward Island	6.0
Nova Scotia	4.9
New Brunswick	4.9
Quebec	2.9
Ontario	5.1
Manitoba	4.9
Saskatchewan	5.1
Alberta	5.6
British Columbia	4.8
Yukon	4.8
Northwest Territories	3.2
Nunavut	2.3

*Preliminary – Statistics Canada

F. Divorces

In 2008, a total of 1,848 divorces were registered in Saskatchewan at the time of publication. This may not represent the total number of petitions filed in 2008, as some petitions may not yet be finalized.

G. Adoptions

There were 178 adoptions registered in Saskatchewan during 2008, compared to 140 adoptions in 2007. The total of 178 adoptions registered includes out-of-province adoptions of persons born in Saskatchewan, as well as adoptions in Saskatchewan of persons born elsewhere.

H. Legal Changes of Name

During 2008, a total of 906 legal change of name applications were registered in Saskatchewan. This represents an increase from the 813 change of name applications that were registered in 2007. The number of applications does not reflect the number of persons who changed their name as each application may affect more than one person and in some cases, an entire family.

I. Documents Issued

Table 11. Documents Issued 2005 – 2008

Document type	2005	2006	2007	2008
Birth Certificates	47,317	49,774	59,378	54,932
Marriage Certificates	5,500	5,331	5,879	5,212
Death Certificates	4,840	4,914	5,177	6,191
Copies of Registrations	9,058	9,075	9,261	8,400
Total	66,715	69,094	79,695	74,735